

**WIRELESS COMMUNICATION SYSTEM, APPARATUS AND
METHOD FOR PROVIDING WIRELESS COMMUNICATION
WITHIN A BUILDING STRUCTURE**

ABSTRACT OF THE INVENTION

A system, apparatus and method provides communication services to interior mobile stations within a building structure using a building interface station located at the building structure. The building interface station communicates with a base station using link frequencies and with interior mobile stations using a coverage frequency also used within a service coverage region of the base station for communication with exterior mobile stations. The building interface station communicates with one or more distribution stations using a distribution frequency. The distribution stations communicate with the interior mobile stations using the coverage frequency.

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